


BIRLA CARBON INDIA PVT. LTD. (UNIT:PATALGANGA)

Summary of Environment Performance

Monitoring	Location	Month		Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19
		Parameter	MPCB Limit							
Stack Monitoring	Boiler Stack, MOC : RCC, Height: 108M, Dimeter at TOP : 6.3M	TPM	150 mg/Nm3	85.43	31.29	32.3	31.8	34.13	31.03	28.95
		SO2	5760 Kg/Day	1398	1724.58	1730.28	0.483	0.24963	87.45	3.1
		Nox		107	193.77	187.05	164.78	179.63	144.46	134.68
		CO		6	8.4	8.5	8.53	15.2	15.5	14.41
		HCs		6	9.8	9.8	9.5	BDL	BDL	BDL
		HC (Non Methane)		BDL	BDL	BDL	BDL	BDL	BDL	BDL
	Dryer Stack, : MS, Height: 72M, Dimeter at TOP : 2.3 M	TPM	150 mg/Nm3	40.13	36.89	32.72	30.39	35.83	34.67	31.18
		SO2	1260 Kg/Day	15.46	12.84	13.8	0.045	0.995	14.45	15.71
		Nox	NA	41.34	17.59	81.01	78.91	74.57	59.57	51.43
		CO	NA	5	1.32	1.25	2.13	11.3	11.12	13.56
		HCs	NA	0.65	5.8	5.8	5.5	BDL	BDL	BDL
		HC (Non Methane)	NA	1.3	BDL	BDL	BDL	BDL	BDL	BDL
	D.G. Stack, MS, Height: 43M, Dimeter at TOP : 0.254 M	TPM	150 mg/Nm3	88.46	58.05	61.3	57.46	53.76	51.28	47.6
		SO2	216 Kg/Day	2.28	0.93	0.98	0.277	0.103	51.43	1.32
		Nox	NA	56.62	88.49	80.4	82.39	76.92	68.48	58.8
		CO	NA	13.02	11	12.64	10.89	7.5	7.3	9.23
		HCs	NA	4.2	10.5	10.5	10.2	BDL	BDL	BDL
		HC (Non Methane)	NA	1.3	2.5	2.5	2.2	BDL	BDL	BDL
	Gas Flare System	TPM	150 mg/Nm3			76.13	67.91	80.06	78.38	74.44
		SO2	NA			3.6	3.406	4.77	5.91	4.51
Nox		NA			12.81	11.02	13.6	113.13	15.41	
CO		NA			2.73	1.93	2.4	2.16	1.61	
HCs		NA			BDL	BDL	BDL	BDL	BDL	

	Packing Exhaust Blower	TPM	150 mg/Nm3	NA		70.14	68.91	64.75	62.58	63.2
		SO2	NA			15.25	2.28	12.44	11.07	11.85
		Nox	NA			16.47	6.96	19.23	18.29	21.11
		CO	NA			3.67	1.86	BDL	4.24	5.3
		HCS	NA			2.2	BDL	BDL	BDL	BDL
	Fire Hydrant Disel Pump	TPM	150 mg/Nm3			73.4	69.13	69.91	52.85	47.73
		SO2	NA			2.26	16.172	3.4	4.31	5.89
		Nox	NA			7.14	14.5	9.84	9.38	10.55
		CO	NA			2.19	2.91	5.21	5.45	4.34
		HCS	NA			BDL	2	BDL	BDL	BDL
Ambient Air Quality	Tank Farm Area	RSPM PM 2.5	60	6.4	16.06	18.66	16.93	23	24.74	18.3
		RSPM PM 10	100	36.16	50.35	52.08	50.35	51.65	49.05	39.92
		SO2	80	11.14	16.43	16.2	17.3	15.41	13.35	8.09
		Nox	80	15.24	19.13	17.46	17.66	17.33	16.49	11.05
		O3	180	3.9	8	9.8	3.03	12.88	10.56	7.36
		Pb	1	BDL	0.04	0.02	0.01	BDL	BDL	BDL
		CO	4	0.19	1.05	1.1	1.2	1.5	1	0.5
		NH3	400	3.1	7.05	8.5	5.1	7.57	7.54	7.48
		C6H6	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL
		BaP	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	Switch Yard	RSPM PM 2.5	60	8.6	15.19	14.76	19.53	18.23	19.53	20.38
		RSPM PM 10	100	48.64	45.14	47.74	53.82	51.22	50.35	43.25
		SO2	80	11.28	16.1	16.7	15.6	15.03	15.07	10.73
		Nox	80	16.72	18.14	18.7	19.71	17.52	17.23	13.08
		O3	180	4.2	4.76	3.73	9.1	11.37	17.36	7.07
		Pb	1	BDL	0.02	0.02	0.02	0.02	0.03	0.01
		CO	4	0.2	0.98	0.99	0.91	0.5	1	1.5
		NH3	400	2.64	5.95	4.8	6.3	6.73	6.7	12.83
		C6H6	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL
		BaP	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL
As	6	BDL	BDL	BDL	0.02	0.02	0.02	BDL		
Ni	20	BDL	BDL	BDL	0.04	BDL	BDL	0.02		

Ambient Noise Level Monitoring	Near Switch Yard	Day	75	60	60.52	60.21	60.61	60.5	60.53	59.47
		Night	70	51.11	55.81	56.18	55.1	55.21	54.95	53.63
	Near Tank Farm Area	Day	75	61.56	59.81	62.26	61.79	59.66	59.47	60.53
		Night	70	50.75	54.95	56.62	55.67	53.63	53.35	54.95
	Near Material Gate	Day	75	62.31	61.62	59.56	59.94	60.32	60.21	59.66
		Night	70	53.5	56.51	55.33	53.94	52.95	52.73	53.7
	Near Dandwadi	Day	75	61.56	60.11	59.31	59.99	59.47	59.66	60.21
		Night	70	50.75	54.97	56.19	55.3	53.49	53.7	52.73
	Near DG Set	Day (Inside)		99	99.9	101.9	102.4	101.4	102.4	101.9
		Day (Outside)		67	74.3	74.8	75.2	74.5	75.1	75.3
	Rivar DG	Day (Inside)		98.2	99.4	98.9	98.4	99.4	99.9	100.2
		Day (Outside)		72.5	73.3	72.4	72.7	73.3	73.5	72.9
Water Sample	Settling Pond Outlet	pH	5.5 -9.0	7.5	6.83	6.93	6.95	6.9	6.72	6.7
		TSS	100	10	26	10	12	10	8	10
		TDS	2100	188	60	98	96	98	100	102
		COD	250	25.6	246.15	32	36.57	34.98	35.04	36.8
		BOD (3 day)	100	4	97	13	15	15	15	14
		O & G	10	<0.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	ETP Composite Water (ETP Outlet)	pH	6.5-8.5	6.12	6.74	6.1	6.12	6.11	6.08	6.1
		Temp.	30 °C	25	29.2	26	27	26	25	25
		TSS	100	12	54	10	12	14	12	13
		TDS	2100	512	64	98	100	102	100	102
		COD	250	44.8	24.61	16	18.28	19.77	15.81	16
		BOD (3 day)	100	9	9	6	8	8	6	6
		O & G	10	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
		Chlorieds	600	189	22.54	69.58	68.6	67.94	68.97	62.48
		Sulphates	1000	12.1	15.8	16.7	16.1	17	16	14.8
		Phosphate	5	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
		Free Available Chlorine	0.5	Nil	<0.2	<0.2	<0.2	0.15	0.44	0.44
		Zinc	1	0.21	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
		Chromium	0.2	Nil	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
		Iron	1	0.13	<0.1	0.33	0.324	0.31	0.305	0.282
	Copper	1	Nil	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	TREATED SEWAGE (STP Outlet)	pH		6.6	6.62	6.61	6.63	6.6	6.62	6.6
		TSS	Not to exceed 50	19	100	16	18	20	18	20
		TDS		170	2100	170	178	174	176	174
		COD	Not to exceed 100	30	30.76	32	39.61	36.5	35.04	36.8
		BOD (3 day)	Not to exceed 30	14	30	13	15	14	13	14
	O & G		<2.0	10	<2.0	<2.0	<2.0	<2.0	<2.0	